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国际互认
检测
TESTING
CNAS L0446



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Test Report

Verified code: 844824

Report No.: E20240129370001-22

Customer: Lumi United Technology Co., Ltd.

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue,
Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Aqara Smart Lock U200

Sample Model: EL-D02D

Receive Sample
Date: Feb.01,2024

Test Date: Feb.02,2024 ~ Feb.24,2024

Reference
Document: AS/NZS 2772.2:2016/Amdt 1:2018

Test Result: Pass

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GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-04-18

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20240129370001-22	Original Issue	2024-03-21

----- The following blanks -----

1. GENERAL DESCRIPTION OF EUT

1.1 APPLICANT INFORMATION

Name: Lumi United Technology Co., Ltd.
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

1.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd.
Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

1.3 BASIC DESCRIPTION OF EUT

Product Name: Aqara Smart Lock U200

Product Model: EL-D02D

Adding Model: EL-D02E

Models Difference: The model NO. EL-D02D & EL-D02E have the same technical construction including circuit diagram, PCB LAYOUT, hardware version and software version identical, except the model name and powered are different due to the sales area .

Product Name	Model No.	Powered	Sales Area
Aqara Smart Lock U200	EL-D02D	Dry Battery+	Sales entities
	EL-D02E	Lithium battery	Sales on line

Trade Name: Aqara

Power supply: 4 LR6 AA 1.5V Batteries(Dry Battery, DC 6V) or 7.4V battery(Lithium battery)

Frequency Band: 2402MHz - 2480MHz for BLE GFSK;
2405MHz - 2480MHz for Thread O-QPSK

Antenna Type: BLE & Thread: PIFA antenna

Antenna Gain: BLE:
Antenna 1: 0.82dBi gain (Max)
Thread:
Antenna 1: 0.82dBi gain (Max)

Hardware Version: V2.1

Software Version: V0019

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E20240129370001-0001

Note 1: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

Note 2: All tests were performed on the EL-D02D model.

2. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

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3. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

China	CNAS(L0446)
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Copies of granted accreditation certificates are available for downloading from our web site,

<http://www.grgtest.com>

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4. TECHNICAL REQUIREMENTS SPECIFICATION IN

4.1 RF EXPOSURE EVALUATION

If the average power emitted by the apparatus operating in the frequency range 3 kHz to 300 GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

4.2 EVALUATION RESULTS

Mode	Antennna	EIRP Power (dBm)	Frequency Band(MHz)	EIRP Power(mW)	EIRP Limit(mW)	Result
BLE-1M	Ant 1	8.73	2402-2480	7.46	20	PASS
BLE-2M	Ant 1	8.72	2402-2480	7.46	20	PASS
Thread	Ant 1	8.72	2405-2480	7.45	20	PASS

Note:

- 1.The maximum output Power were refer to the RF report (Report NO.:E20240129370001-19& E20240129370001-20).
2. According this requirement the SAR-measurement has not to be conducted when the sending level is < 20 mW.
3. The BLE and Thread can't simultaneously transmit.

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